

M1 Maths

Mental Arithmetic

- know the + and \times facts to $9+9$ and 9×9 and the corresponding – and \div facts
- develop, choose and use a flexible range of methods for performing arithmetic calculations mentally and on paper
- have a sense of the size of numbers; be able to estimate the result of a calculation before performing it and check the reasonableness of an answer after calculating it.

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Number Facts

Why learn the number facts?

Knowing the number facts is important because it allows you to concentrate on the bigger calculations you are doing without having to keep stopping to work out the basic facts. For example, suppose you are multiplying 24 by 7 to work out how many hours in a week. You may do 7×20 which is 140 and 7 times 4 which is 28, then add 20 to 140 to get 160, then add the 8 to get 168. If you have to keep stopping to work out 7×2 , 7×4 , $4 + 2$ etc., then you tend to lose track of what you were doing in the bigger calculation. It can be very frustrating to have to keep starting again because you have forgotten where you were up to.

How to learn the number facts

Number facts just have to be learnt – sort of parrot fashion. There is no reason why $7 + 6$ is 13; it just is and you just have to memorise it so that you can know the answer instantly without having to take time to work it out.

There are various ways to learn number facts. One of the best ways is to use a grid like the one on page 6 of this module. You can print copies of this. Pick one operation. Time yourself while filling in the 64 answers.



As you go, circle any that you have to stop and think about or can't do. At the end,

write the time you took in minutes and seconds in the space provided under the operation. Then mark your work using the answer sheet on page 7 and circle any that you got wrong if they are not circled already. It is easiest if you print the answer sheet and fold it vertically down the right-hand side of each column of answers, then lay the answer-sheet answers to the left of your answers.

Then write your number correct out of 64 in the space provided under the operation.

After timing yourself on an operation and marking it, make an effort to memorise the facts that you have circled (both those you had to think about and those you got wrong or didn't do) by repeating them to yourself often. This is the most important part of the learning process and will ensure that you improve from one attempt to the next.

Ideally, you should be able to get all 64 correct on the Practice Sheet in about $1\frac{1}{2}$ minutes for the addition and multiplication and 2 minutes for subtraction and division. You should practise until you can do this consistently.

To add a bit of variety to your practice, there are various different practice sheets on pages 10 to 18.

There is a progress chart on page 8 which you can use to track your progress in mastering your number facts. Seeing your progress can be rewarding and motivating. Instructions for using the chart can be found on page 9.

Mental Arithmetic Techniques

We spend a lot of time in Years 1 to 7 learning procedures for adding, subtracting, multiplying and dividing on paper.

Most of the arithmetic that people do in day to day life, though, is done mentally – and the written methods you learn aren't always the easiest ones to use in your head.

For example, suppose you were working out the change from \$10 if you spend \$1.65. The standard written method is very laborious with lots of decomposition. But most of us can do that calculation quite easily, for instance, by taking a dollar from \$10 to make \$9, then taking 60c to make \$8.40, then taking 5c to make \$8.35.

Likewise, suppose you wanted the price of 18 Freddos at 25c each.



The standard method would be difficult in your head because there are lots of things to remember. Try it if you are not convinced. However, you might spot that 4 Freddos cost \$1, therefore 16 cost \$4 and 18 cost \$4.50.

No single method is quickest for every problem. Someone who is good at arithmetic has numerous methods they can use depending on what is easiest for that problem. And they also have the ability to make up new ones if they can make the problem easier.

There are two main ways to improve your repertoire of methods and to become skilful at using them.

Firstly have lots of practice at doing calculations mentally, trying to think of good short cuts where possible. Practice exercises are provided on pages 19 to 28 and the answers are on pages 29 to 33. There are different degrees of difficulty for students working on different levels.

These can be used in a number of ways, but generally it is good to do them in batches of 10 questions.

- You could read the questions from a screen and write the answers on paper
- You could print the page you are working on and write the answers on the sheet or on a different sheet.
- You could get someone to read you the questions and you could write the answers on paper. Your teacher may do this as a whole-class activity to give you regular practice.

Secondly, after doing a mental arithmetic calculation, see how other people did the same calculation. Nearly always when a class does a calculation, more than one method will be used. Listen to the methods others used and, if you hadn't thought of them, try to add them to your own repertoire and practise them.

Your teacher will hopefully give you opportunities to do mental arithmetic and share methods so that you can see how other people did the same calculations.

We do arithmetic on paper only because there is too much to remember at once if we do it in our heads.



Sometimes, when working on paper, all we need to put down is a couple of jottings. Other times we will need to lay out the calculation more fully. Even if you lay it out more fully, there are usually several different methods by which the calculation can be done. You can choose whatever method makes it easiest and most reliable. There is no need to use a 'standard' method.

Number Sense and Estimation

Number sense is the ability to have a feel for how big the answer will be before doing a calculation. For instance, seeing that:

- 72×59 is likely to be a 4-digit number,
- the number of 0.05s that would be needed to make 40 is likely to be quite a bit more than 40. In other words that $40 \div 0.05$ is quite a bit more than 40,
- $\frac{5}{12}$ is less than $\frac{4}{7}$,



- 135% of \$42.40 will be about \$50 to \$60.

Number sense comes from having a good understanding of numbers – what they mean – what fractions mean, what the different places in a decimal mean etc. It also comes from lots of experience with doing calculations with different types of numbers. And, in particular, it comes from estimating the results of calculations before doing them and comparing the estimate with the actual answer afterwards. If you can get into the habit of that when you calculate, it will help your number sense immensely. And good number sense will make you much more competent with anything involving numbers.

In a lot of situations in life, you only need an approximate answer for a calculation. Good number sense will allow you to get this without going to the trouble of doing it fully.

As mentioned above, good number sense will tell you that 72×59 will probably be a 4-digit number. To get a better idea, we could start multiplying by the grid method by doing $70 \times 50 = 3500$. The answer will be a bit more than 3500 – maybe 4000. Even better would be to notice that 59 is almost 60 and so to work out 70×60 as 4200. Because 59 is just below 60 and 72 is just above 70, the errors will sort of cancel each

other out a bit, so 4200 should be fairly close. The exact answer is 4248.

Finally, good number sense will allow you to see easily if the answer to a calculation is wrong and this can be useful in lots of situations, not least in seeing if any of your answers on a test need re-checking.

Main Number Facts Practice Sheet

2+5		5+9		3+7		2+9		4+8		6+5		7+9		5+6	
6+8		4+2		9+4		4+4		9+6		7+4		4+3		4+7	
2+3		8+3		6+6		3+9		5+5		6+2		9+9		9+2	
5+7		2+7		9+8		7+7		8+7		5+4		4+6		6+9	
6+3		3+3		8+2		2+4		5+2		3+6		9+7		7+5	
8+5		7+6		9+5		2+8		6+7		5+8		2+6		2+2	
6+4		8+8		7+3		5+3		4+5		3+2		7+8		3+4	
8+9		3+5		8+6		7+2		3+8		8+4		4+9		9+3	

+ Time

+ Correct

12-7		6-3		12-4		8-2		14-6		15-9		11-2		4-2	
9-7		14-7		8-5		17-8		10-3		10-4		12-8		8-4	
11-6		9-6		9-4		14-9		12-9		16-7		7-4		5-3	
9-2		8-3		14-5		11-8		11-4		7-5		14-8		11-3	
17-9		10-6		9-3		13-5		16-8		15-7		12-3		6-4	
5-2		11-9		10-8		10-7		13-7		10-5		13-8		9-5	
11-5		15-8		7-3		13-6		7-2		13-4		6-2		11-7	
18-9		10-2		16-9		12-5		12-6		8-6		13-9		15-6	

- Time

- Correct

2x5		5x9		3x7		2x9		4x8		6x5		7x9		5x6	
6x8		4x2		9x4		4x4		9x6		7x4		4x3		4x7	
2x3		8x3		6x6		3x9		5x5		6x2		9x9		9x2	
5x7		2x7		9x8		7x7		8x7		5x4		4x6		2x2	
6x3		3x3		8x2		2x4		5x2		3x6		9x7		6x9	
8x5		7x6		9x5		2x8		6x7		5x8		2x6		7x5	
6x4		8x8		7x3		5x3		4x5		3x2		7x8		9x3	
8x9		3x5		8x6		7x2		3x8		8x4		4x9		3x4	

x Time

x Correct

35÷7		24÷3		45÷5		18÷9		10÷2		54÷9		25÷5		56÷8	
12÷4		21÷7		8÷4		42÷7		32÷8		18÷2		14÷2		21÷3	
18÷3		72÷8		42÷6		28÷4		27÷9		16÷4		48÷6		30÷6	
36÷4		64÷8		16÷2		63÷7		12÷6		54÷6		15÷3		20÷4	
6÷3		20÷5		45÷9		12÷3		40÷8		30÷5		18÷6		24÷8	
16÷8		8÷2		15÷5		36÷9		14÷7		24÷4		49÷7		63÷9	
35÷5		72÷9		6÷2		56÷7		40÷5		9÷3		48÷8		36÷6	
12÷2		24÷6		81÷9		27÷3		32÷4		10÷5		28÷7		4÷2	

÷ Time

÷ Correct

Main Number Facts Practice Sheet - Answers

2+5	7	5+9	14	3+7	10	2+9	11	4+8	12	6+5	11	7+9	16	5+6	11
6+8	14	4+2	6	9+4	13	4+4	8	9+6	15	7+4	11	4+3	7	4+7	11
2+3	5	8+3	11	6+6	12	3+9	12	5+5	10	6+2	8	9+9	18	9+2	11
5+7	12	2+7	9	9+8	17	7+7	14	8+7	15	5+4	9	4+6	10	6+9	15
6+3	9	3+3	6	8+2	10	2+4	6	5+2	7	3+6	9	9+7	16	7+5	12
8+5	13	7+6	13	9+5	14	2+8	10	6+7	13	5+8	13	2+6	8	2+2	4
6+4	10	8+8	16	7+3	10	5+3	8	4+5	9	3+2	5	7+8	15	3+4	7
8+9	17	3+5	8	8+6	14	7+2	9	3+8	11	8+4	12	4+9	13	9+3	12

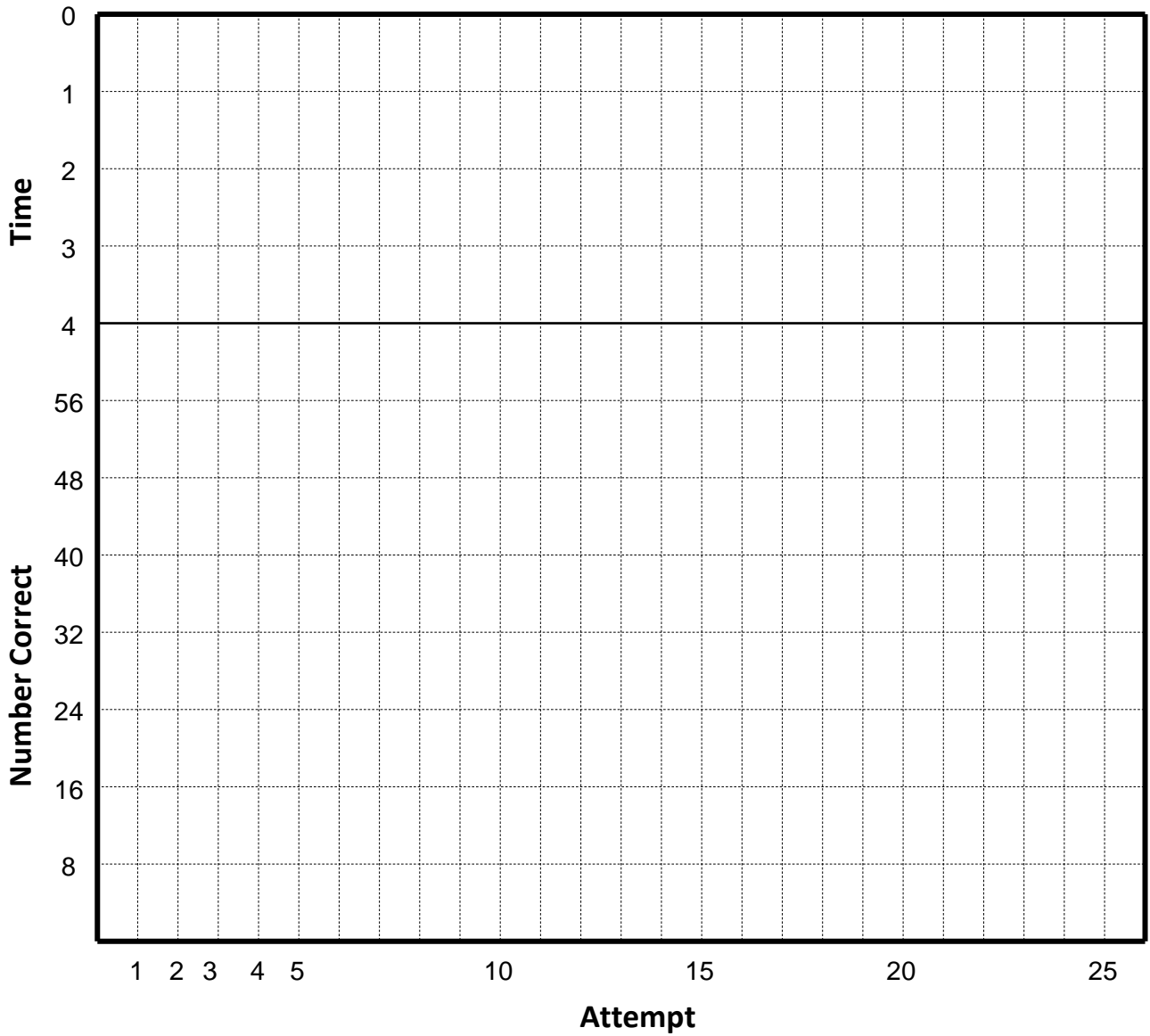
12-7	5	6-3	3	12-4	8	8-2	6	14-6	8	15-9	6	11-2	9	4-2	2
9-7	2	14-7	7	8-5	3	17-8	9	10-3	7	10-4	6	12-8	4	8-4	4
11-6	5	9-6	3	9-4	5	14-9	5	12-9	3	16-7	9	7-4	3	5-3	2
9-2	7	8-3	5	14-5	9	11-8	3	11-4	7	7-5	2	14-8	6	11-3	8
17-9	8	10-6	4	9-3	6	13-5	8	16-8	8	15-7	8	12-3	9	6-4	2
5-2	3	11-9	2	10-8	2	10-7	3	13-7	6	10-5	5	13-8	5	9-5	4
11-5	6	15-8	7	7-3	4	13-6	7	7-2	5	13-4	9	6-2	4	11-7	4
18-9	9	10-2	8	16-9	7	12-5	7	12-6	6	8-6	2	13-9	4	15-6	9

2x5	10	5x9	45	3x7	21	2x9	18	4x8	32	6x5	30	7x9	63	5x6	30
6x8	48	4x2	8	9x4	36	4x4	16	9x6	54	7x4	28	4x3	12	4x7	28
2x3	6	8x3	24	6x6	36	3x9	27	5x5	25	6x2	12	9x9	81	9x2	18
5x7	35	2x7	14	9x8	72	7x7	49	8x7	56	5x4	20	4x6	24	2x2	4
6x3	18	3x3	9	8x2	16	2x4	8	5x2	10	3x6	18	9x7	63	6x9	54
8x5	40	7x6	42	9x5	45	2x8	16	6x7	42	5x8	40	2x6	12	7x5	35
6x4	24	8x8	64	7x3	21	5x3	15	4x5	20	3x2	6	7x8	56	9x3	27
8x9	72	3x5	15	8x6	48	7x2	14	3x8	24	8x4	32	4x9	36	3x4	12

35÷7	5	24÷3	8	45÷5	9	18÷9	2	10÷2	5	54÷9	6	25÷5	5	56÷8	7
12÷4	3	21÷7	3	8÷4	2	42÷7	6	32÷8	4	18÷2	9	14÷2	7	21÷3	7
18÷3	6	72÷8	9	42÷6	7	28÷4	7	27÷9	3	16÷4	4	48÷6	8	30÷6	5
36÷4	9	64÷8	8	16÷2	8	63÷7	9	12÷6	2	54÷6	9	15÷3	5	20÷4	5
6÷3	2	20÷5	4	45÷9	5	12÷3	4	40÷8	5	30÷5	6	18÷6	3	24÷8	3
16÷8	2	8÷2	4	15÷5	3	36÷9	4	14÷7	2	24÷4	6	49÷7	7	63÷9	7
35÷5	7	72÷9	8	6÷2	3	56÷7	8	40÷5	8	9÷3	3	48÷8	6	36÷6	6
12÷2	6	24÷6	4	81÷9	9	27÷3	9	32÷4	8	10÷5	2	28÷7	4	4÷2	2

Number Facts Progress Chart

You can use this to plot your progress – Instructions on the next page



Number Facts Progress Chart – Instructions for Use

Some people like to keep track of their progress in mastering the number facts. You can do this by printing the progress chart on the page 8 and plotting your results for the Main Number Facts Practice Sheet on it. This is how you plot them.

Let's say you attempt the addition facts. If you get less than 64 correct, then plot the number correct on the bottom part of the graph. Use a + symbol (use a – symbol if you did the subtraction facts etc.). Put the symbol on the first vertical dotted line – the one corresponding to Attempt 1. Judge the vertical position by using the scale on the left. Estimate between the graduations. For instance, if you got 38 correct, then you will put the symbol between the horizontal dotted line for 32 and the one for 40, but closer to the 40 (because 38 is closer to 40 than to 32).

If you get all 64 correct, then you don't plot your number correct, but instead, you plot your time on the top half of the graph. Note the scale goes from 4 minutes at the bottom to 0 at the top. If you took 4 minutes or more, then plot your symbol on the 4 minutes line. If you took less than 4 minutes, plot it at the right height according to the scale on the left. Again the symbol goes on the first vertical dotted line.

Note that you will only plot one symbol – on *either* the bottom part *or* the top part of the graph – *not both*.

When you have your next go at that same operation, you plot your result the same way, but on the second vertical dotted line – the one corresponding to Attempt 2. And so on for up to 25 attempts. Join your symbols with lines to make a line graph.

When you have your first go at a different operation, you plot your result using the symbol for that operation. Your first attempt with that operation goes on the first vertical line (Attempt 1), the second on the second and so on. This will mean that you can plot 25 attempts at each of the 4 operations (100 attempts in total) on the one chart. There should eventually be four symbols on each vertical line (+, –, × and ÷). It will make the chart easier to read if you use a different colour for each operation.

After timing yourself on an operation and marking it, make an effort to memorise the facts that you have circled by repeating them to yourself often. This is the most important part of the learning process and will ensure that you improve from one attempt to the next. Don't expect every attempt to be better than the last, but a trend of improvement should show once you have made a few attempts. This will appear as a line heading generally upwards on the chart, even if it has a few wiggles along the way.

Learning number facts takes time. You might already know all your number facts. But, if not, you will have to spend time practising them. If you make the effort after each attempt to learn the ones you got wrong, it should take you a lot less than 25 attempts to know them all. Aim for being able to do the + and × sets in about 1½ minutes each and the – and ÷ sets in about 2 minutes each.

Extra Number Facts Practice 1: Mixed Operations

2+5		5+9		3+7		2+9		4+8		6+5		7+9	
12-7		6-3		12-4		8-2		14-6		15-9		11-2	
2×5		5×9		3×7		2×9		4×8		6×5		7×9	
35÷7		24÷3		45÷5		18÷9		10÷2		54÷9		25÷5	
6+8		4+2		9+4		4+4		9+6		7+4		4+3	
9-7		14-7		8-5		17-8		10-3		10-4		12-8	
6×8		4×2		9×4		4×4		9×6		7×4		4×3	
12÷4		21÷7		8÷4		42÷7		32÷8		18÷2		14÷2	
2+3		8+3		6+6		3+9		5+5		6+2		9+9	
11-6		9-6		9-4		14-9		12-9		16-7		7-4	
2×3		8×3		6×6		3×9		5×5		6×2		9×9	
18÷3		72÷8		42÷6		28÷4		27÷9		16÷4		48÷6	
5+7		2+7		9+8		7+7		8+7		5+4		4+6	
9-2		8-3		14-5		11-8		11-4		7-5		14-8	
5×7		2×7		9×8		7×7		8×7		5×4		4×6	
36÷4		64÷8		16÷2		63÷7		12÷6		54÷6		15÷3	
6+3		3+3		8+2		2+4		5+2		3+6		9+7	
17-9		10-6		9-3		13-5		16-8		15-7		12-3	
6×3		3×3		8×2		2×4		5×2		3×6		9×7	
6÷3		20÷5		45÷9		12÷3		40÷8		30÷5		18÷6	
8+5		7+6		9+5		2+8		6+7		5+8		2+6	
5-2		11-9		10-8		10-7		13-7		10-5		13-8	
8×5		7×6		9×5		2×8		6×7		5×8		2×6	
16÷8		8÷2		15÷5		36÷9		14÷7		24÷4		49÷7	
6+4		8+8		7+3		5+3		4+5		3+2		7+8	
11-5		15-8		7-3		13-6		7-2		13-4		6-2	
6×4		8×8		7×3		5×3		4×5		3×2		7×8	
35÷5		72÷9		6÷2		56÷7		40÷5		9÷3		48÷8	
8+9		3+5		8+6		7+2		3+8		8+4		4+9	
18-9		10-2		16-9		12-5		12-6		8-6		13-9	
8×9		3×5		8×6		7×2		3×8		8×4		4×9	
12÷2		24÷6		81÷9		27÷3		32÷4		10÷5		28÷7	
5+6		4+7		9+2		6+9		7+5		9+3		3+4	
8-4		5-3		11-3		6-4		9-5		11-7		15-6	
5×6		4×7		9×2		6×9		7×5		9×3		3×4	
56÷8		21÷3		30÷6		20÷4		24÷8		63÷9		36÷6	

Extra Number Facts Practice 1: Mixed Operations - Answers

7	14	10	11	12	11	16
5	3	8	6	8	6	9
10	45	21	18	32	30	63
5	8	9	2	5	6	5
14	6	13	8	15	11	7
2	7	3	9	7	6	4
48	8	36	16	54	28	12
3	3	2	6	4	9	7
5	11	12	12	10	8	18
5	3	5	5	3	9	3
6	24	36	27	25	12	81
6	9	7	7	3	4	8
12	9	17	14	15	9	10
7	5	9	3	7	2	6
35	14	72	49	56	20	24
9	8	8	9	2	9	5
9	6	10	6	7	9	16
8	4	6	8	8	8	9
18	9	16	8	10	18	63
2	4	5	4	5	6	3
13	13	14	10	13	13	8
3	2	2	3	6	5	5
40	42	45	16	42	40	12
2	4	3	4	2	6	7
10	16	10	8	9	5	15
6	7	4	7	5	9	4
24	64	21	15	20	6	56
7	8	3	8	8	3	6
17	8	14	9	11	12	13
9	8	7	7	6	2	4
72	15	48	14	24	32	36
6	4	9	9	8	2	4
11	11	11	15	12	12	7
4	2	8	2	4	4	9
30	28	18	54	35	27	12
7	7	5	5	3	7	6

Extra Number Facts Practice 2: Addition and Multiplication

	3	8	2	6	9	4	7	5
2								
8								
7								
5								
3								
6								
4								
9								

	6	2	9	5	4	7	3	8
4								
2								
9								
6								
3								
8								
7								
5								

	7	3	9	5	2	8	6	4
7								
5								
2								
8								
6								
3								
9								
4								

	8	9	3	6	4	7	2	5
3								
8								
2								
6								
9								
5								
4								
7								

	3	7	4	9	2	5	8	6
9								
6								
2								
8								
7								
5								
3								
4								

	2	6	7	9	3	5	4	8
4								
8								
5								
3								
7								
9								
2								
6								

Extra Number Facts Practice 2: Answers - Addition

	3	8	2	6	9	4	7	5
2	5	10	4	8	11	6	9	7
8	11	16	10	14	17	12	15	13
7	10	15	9	13	16	11	14	12
5	8	13	7	11	14	9	12	10
3	6	11	5	9	12	7	10	8
6	9	14	8	12	15	10	13	11
4	7	12	6	10	13	8	11	9
9	12	17	11	15	18	13	16	14

	6	2	9	5	4	7	3	8
4	10	6	13	9	8	11	7	12
2	8	4	11	7	6	9	5	10
9	15	11	18	14	13	16	12	17
6	12	8	15	11	10	13	9	14
3	9	5	12	8	7	10	6	11
8	14	10	17	13	12	15	11	16
7	13	9	16	14	11	14	10	15
5	11	7	14	10	9	12	8	13

	7	3	9	5	2	8	6	4
7	14	10	16	12	9	15	13	11
5	12	8	14	10	7	13	11	9
2	9	5	11	7	4	10	8	6
8	15	11	17	13	10	16	14	12
6	13	9	15	11	8	14	12	10
3	10	6	12	8	5	11	9	7
9	16	12	18	14	11	17	15	13
4	11	7	13	9	6	12	10	8

	8	9	3	6	4	7	2	5
3	11	12	6	9	7	10	5	8
8	16	17	11	14	12	15	10	13
2	10	11	5	8	6	9	4	7
6	14	15	9	12	10	13	8	11
9	17	18	12	15	13	16	11	14
5	13	14	8	11	9	12	7	10
4	12	13	7	10	8	11	6	9
7	15	16	10	13	11	14	9	12

	3	7	4	9	2	5	8	6
9	12	16	13	18	11	14	17	15
6	9	13	10	15	8	11	14	12
2	5	9	6	11	4	7	10	8
8	11	15	12	17	10	13	16	14
7	10	14	11	16	9	12	15	13
5	8	12	9	14	7	10	13	11
3	6	10	7	12	5	8	11	9
4	7	11	8	13	6	9	12	10

	2	6	7	9	3	5	4	8
4	6	10	11	13	7	9	8	12
8	10	14	15	17	11	13	12	16
5	7	11	12	14	8	10	9	13
3	5	9	10	12	6	8	7	11
7	9	13	14	16	10	12	11	15
9	11	15	16	18	12	14	13	17
2	4	8	9	11	5	7	6	10
6	8	12	13	15	9	11	10	14

Extra Number Facts Practice 2: Answers - Multiplication

	3	8	2	6	9	4	7	5
2	6	16	4	12	18	8	14	10
8	24	64	16	48	72	32	56	40
7	21	56	14	42	63	28	49	35
5	15	40	10	30	45	20	35	25
3	9	24	6	18	27	12	21	15
6	18	48	12	36	54	24	42	30
4	12	32	8	24	36	16	28	20
9	27	72	18	54	81	36	63	45

	6	2	9	5	4	7	3	8
4	24	8	36	20	16	28	12	32
2	12	4	18	10	8	14	6	16
9	54	18	81	45	36	63	27	72
6	36	12	54	30	24	42	18	48
3	18	6	27	15	12	21	9	24
8	48	16	72	40	32	56	24	64
7	42	14	63	35	28	49	21	56
5	30	10	45	25	20	35	15	40

	7	3	9	5	2	8	6	4
7	49	10	16	35	14	56	42	28
5	35	15	45	25	10	40	30	20
2	14	6	18	10	4	16	12	8
8	56	24	72	40	16	64	48	32
6	42	18	54	30	12	48	36	24
3	21	9	27	15	6	24	18	12
9	63	27	81	45	18	72	54	36
4	28	12	36	20	8	32	24	16

	8	9	3	6	4	7	2	5
3	24	27	9	18	12	21	6	15
8	64	72	24	48	32	56	16	40
2	16	18	6	12	8	14	4	10
6	48	54	18	36	24	42	12	30
9	72	81	27	54	36	63	18	45
5	40	45	15	30	20	35	10	25
4	32	36	12	24	16	11	6	20
7	56	63	21	42	28	49	14	12

	3	7	4	9	2	5	8	6
9	27	63	36	81	18	45	72	54
6	18	42	24	54	12	30	48	36
2	5	14	8	18	4	10	16	12
8	24	56	32	72	16	40	64	48
7	21	49	28	63	14	35	56	42
5	15	35	20	45	10	25	40	30
3	9	21	12	27	6	15	24	18
4	12	28	16	36	8	20	32	24

	2	6	7	9	3	5	4	8
4	8	24	28	36	12	20	16	32
8	16	48	56	72	24	40	32	64
5	10	30	35	45	15	25	20	40
3	6	18	21	27	9	15	12	24
7	14	42	49	63	21	35	28	56
9	18	54	63	81	27	45	36	72
2	4	12	14	18	6	10	8	16
6	12	36	42	54	18	30	24	48

Extra Number Facts Practice 3: Subtraction and Division

$4-2 =$	$11-8 =$	$10-2 =$	$14-8 =$	$11-9 =$	$12-3 =$	$10-7 =$	$11-6 =$
$18-9 =$	$8-4 =$	$15-7 =$	$5-3 =$	$6-4 =$	$13-4 =$	$11-7 =$	$15-6 =$
$7-3 =$	$16-8 =$	$5-2 =$	$12-5 =$	$13-8 =$	$8-6 =$	$9-2 =$	$10-5 =$
$16-9 =$	$7-2 =$	$12-6 =$	$13-9 =$	$10-8 =$	$15-8 =$	$11-3 =$	$13-7 =$
$12-7 =$	$6-3 =$	$12-4 =$	$8-2 =$	$15-9 =$	$9-7 =$	$14-6 =$	$11-2 =$
$9-4 =$	$14-7 =$	$8-5 =$	$17-8 =$	$9-5 =$	$8-3 =$	$14-5 =$	$17-9 =$
$10-6 =$	$16-7 =$	$7-5 =$	$11-5 =$	$9-3 =$	$13-6 =$	$10-3 =$	$12-8 =$
$6-2 =$	$9-6 =$	$10-4 =$	$14-9 =$	$11-4 =$	$13-5 =$	$12-9 =$	$7-4 =$

$20 \div 5 =$	$8 \div 2 =$	$72 \div 9 =$	$24 \div 6 =$	$21 \div 3 =$	$14 \div 7 =$	$42 \div 6 =$	$16 \div 2 =$
$45 \div 9 =$	$15 \div 5 =$	$6 \div 2 =$	$81 \div 9 =$	$24 \div 8 =$	$16 \div 4 =$	$54 \div 6 =$	$18 \div 6 =$
$30 \div 5 =$	$63 \div 9 =$	$10 \div 5 =$	$24 \div 4 =$	$30 \div 6 =$	$9 \div 3 =$	$56 \div 7 =$	$27 \div 3 =$
$36 \div 9 =$	$20 \div 4 =$	$40 \div 5 =$	$32 \div 4 =$	$49 \div 7 =$	$48 \div 8 =$	$28 \div 7 =$	$36 \div 6 =$
$35 \div 7 =$	$24 \div 3 =$	$45 \div 5 =$	$18 \div 9 =$	$10 \div 2 =$	$54 \div 9 =$	$25 \div 5 =$	$14 \div 2 =$
$12 \div 4 =$	$21 \div 7 =$	$72 \div 8 =$	$18 \div 3 =$	$12 \div 3 =$	$18 \div 2 =$	$48 \div 6 =$	$27 \div 9 =$
$36 \div 4 =$	$6 \div 3 =$	$16 \div 8 =$	$35 \div 5 =$	$4 \div 2 =$	$42 \div 7 =$	$28 \div 4 =$	$32 \div 8 =$
$8 \div 4 =$	$64 \div 8 =$	$15 \div 3 =$	$40 \div 8 =$	$12 \div 2 =$	$56 \div 8 =$	$63 \div 7 =$	$12 \div 6 =$

$8-5 =$	$17-8 =$	$9-5 =$	$8-3 =$	$14-5 =$	$17-9 =$	$9-4 =$	$14-7 =$
$10-6 =$	$16-7 =$	$7-5 =$	$11-5 =$	$9-3 =$	$13-6 =$	$10-3 =$	$12-8 =$
$7-3 =$	$16-8 =$	$5-2 =$	$12-5 =$	$13-8 =$	$8-6 =$	$9-2 =$	$10-5 =$
$16-9 =$	$7-2 =$	$12-6 =$	$13-9 =$	$10-8 =$	$15-8 =$	$11-3 =$	$13-7 =$
$12-7 =$	$6-3 =$	$12-4 =$	$8-2 =$	$15-9 =$	$9-7 =$	$14-6 =$	$11-2 =$
$6-2 =$	$9-6 =$	$10-4 =$	$14-9 =$	$11-4 =$	$13-5 =$	$12-9 =$	$7-4 =$
$4-2 =$	$11-8 =$	$10-2 =$	$14-8 =$	$11-9 =$	$12-3 =$	$10-7 =$	$11-6 =$
$18-9 =$	$8-4 =$	$15-7 =$	$5-3 =$	$6-4 =$	$13-4 =$	$11-7 =$	$15-6 =$

$28 \div 7 =$	$36 \div 6 =$	$36 \div 9 =$	$20 \div 4 =$	$40 \div 5 =$	$32 \div 4 =$	$49 \div 7 =$	$48 \div 8 =$
$35 \div 7 =$	$24 \div 3 =$	$45 \div 5 =$	$18 \div 9 =$	$10 \div 2 =$	$54 \div 9 =$	$25 \div 5 =$	$14 \div 2 =$
$36 \div 4 =$	$6 \div 3 =$	$16 \div 8 =$	$35 \div 5 =$	$4 \div 2 =$	$42 \div 7 =$	$28 \div 4 =$	$32 \div 8 =$
$20 \div 5 =$	$8 \div 2 =$	$72 \div 9 =$	$24 \div 6 =$	$21 \div 3 =$	$14 \div 7 =$	$42 \div 6 =$	$16 \div 2 =$
$30 \div 5 =$	$63 \div 9 =$	$10 \div 5 =$	$24 \div 4 =$	$30 \div 6 =$	$9 \div 3 =$	$56 \div 7 =$	$27 \div 3 =$
$45 \div 9 =$	$15 \div 5 =$	$6 \div 2 =$	$81 \div 9 =$	$24 \div 8 =$	$16 \div 4 =$	$54 \div 6 =$	$18 \div 6 =$
$12 \div 4 =$	$21 \div 7 =$	$72 \div 8 =$	$18 \div 3 =$	$12 \div 3 =$	$18 \div 2 =$	$48 \div 6 =$	$27 \div 9 =$
$8 \div 4 =$	$64 \div 8 =$	$15 \div 3 =$	$40 \div 8 =$	$12 \div 2 =$	$56 \div 8 =$	$63 \div 7 =$	$12 \div 6 =$

Extra Number Facts Practice 3: Subtraction and Division - Answers

2	3	8	6	2	9	3	5
9	4	8	2	2	9	4	9
4	8	3	7	5	2	7	5
7	5	6	4	2	7	8	6
5	3	8	6	6	2	8	9
5	7	3	9	4	5	9	8
4	9	2	6	6	7	7	4
4	3	4	5	7	8	3	3
4	4	8	4	7	2	7	8
5	3	3	9	3	4	9	3
6	7	2	6	5	3	8	9
4	5	8	8	7	6	4	6
5	8	9	2	5	6	5	7
3	3	9	6	4	9	8	3
9	2	2	7	2	6	7	4
2	8	5	5	6	7	9	2
3	9	4	5	9	8	5	7
4	9	2	6	6	7	7	4
4	8	3	7	5	2	7	5
7	5	6	4	2	7	8	6
5	3	8	6	6	2	8	9
4	3	6	5	7	8	3	3
2	3	8	6	2	9	3	5
9	4	8	2	2	9	4	9
4	6	4	5	8	8	7	6
5	8	9	2	5	6	5	7
9	2	2	7	2	6	7	4
4	4	8	4	7	2	7	8
6	7	2	6	5	3	8	9
5	3	3	9	3	4	9	3
3	3	9	6	4	9	8	3
2	8	5	5	6	7	9	2

Extra Number Facts Practice 4 - Addition and Subtraction

		2		3		6	
7	12						
4							12
	14			18			
						8	
		7					
					6		
6		13		10			
						14	

		2		9			8
				13			
8							12
	7						
		9					10
			12				
9			14		15	12	
	8						
							11

	6		3				2
6				11			
8		16					
					12		5
	13						
2				9			
	15						
				11			
5						9	

		3				4	
	10						
7			16		14		
3				9			8
		11					
						13	
		8					7
			13				
6	14						

			2	7		6	
				14			
						10	
9			13				
				13			
			4				
5		13					10
8					11		
	12			5			

							4
3							
	11						12
			14				9
					17		13
7							
		9				11	8
2					2		
				13			10

Extra Number Facts Practice 4 - Multiplication and Division

		2		3		6	
7	35						
4							32
	45			81			
						12	
		10					
					9		
6		42		24			
						48	

		2		9			8
				36			
8							32
	10						
		14					16
			35				
9			45		54	27	
	12						
							24

	6		3				2
6				30			
8		64					
					27		6
	42						
2				14			
	54						
				28			
5						20	

		3				4	
	16						
7			63		49		
3				18			15
		24					
						36	
		15					10
			36				
6	48						

		2		7		6	
				14			
						24	
9			36				
				42			
				4			
5		40					25
8					24		
	27			6			

							4
3							
	24						32
			45				20
					72		36
7							28
		20				28	16
2				4			
			36				24

Mental Arithmetic Practice - Level 1

1. $6 + 17$
2. $22 - 5$
3. 17×2
4. $36 \div 3$
5. $301 + 34$
6. $205 - 7$
7. $4 + 18$
8. 12×7
9. $80 \div 5$
10. $154 + 98$
11. $22 + 13$
12. $170 - 90$
13. 12×5
14. $40 \div 4$
15. $32 + 150$
16. $59 + 60$
17. $6400 - 31$
18. 13×3
19. $64 \div 4$
20. $1000 - 60$
21. $6 + 47$
22. $30 - 26$
23. 23×3
24. $40 \div 20$
25. $25 + 117$
26. $170 - 120$
27. $20 - 13$
28. 21×3
29. $34 \div 2$
30. $160 \div 40$
31. $49 + 73$
32. $31 - 18$
33. 7×13
34. $51 \div 3$
35. $15 + 410$
36. $600 - 410$
37. $267 - 14$
38. 27×3
39. $28 \div 2$
40. 18×10
41. $18 + 40$
42. $100 - 44$
43. 14×10
44. $100 \div 5$
45. $16 + 8$
46. $32 - 9$
47. $31 - 17$
48. 23×4
49. $160 \div 2$
50. 3×100
51. $7 + 9$
52. $72 - 13$
53. 12×60
54. $90 \div 3$
55. $28 - 28$
56. $311 + 4$
57. $56 - 28$
58. 17×100
59. $40 \div 5$
60. 39×10
61. $60 + 45$
62. $52 - 12$
63. 15×5
64. $75 \div 15$
65. $12 + 54$
66. $50 + 340$
67. $300 + 199$
68. 6×14
69. $38 \div 2$
70. $77 - 74$
71. $35 + 45$
72. $40 - 12$
73. 24×6
74. $84 \div 4$
75. $25 + 199$
76. $432 - 33$
77. $601 - 300$
78. $70 \div 14$
79. 31×6
80. $140 \div 10$

Mental Arithmetic Practice – Level 1 – continued

- | | |
|-----------------------|----------------------|
| 81. $26 + 8$ | 121. $17 + 112$ |
| 82. $71 - 12$ | 122. $45 - 18$ |
| 83. 25×5 | 123. 24×4 |
| 84. $49 \div 7$ | 124. $64 \div 2$ |
| 85. $175 - 9$ | 125. $28 + 23$ |
| 86. $27 + 34$ | 126. $125 - 112$ |
| 87. $45 - 17$ | 127. $1189 - 200$ |
| 88. 32×5 | 128. 1×73 |
| 89. 60×10 | 129. $42 \div 3$ |
| 90. $4000 \div 100$ | 130. 7×103 |
| 91. $130 + 1100$ | 131. $16 + 0$ |
| 92. $137 - 15$ | 132. $34 - 0$ |
| 93. 28×3 | 133. 27×0 |
| 94. $440 \div 2$ | 134. $0 \div 3$ |
| 95. $30 + 15$ | 135. $10 + 314$ |
| 96. $43 - 17$ | 136. $148 - 99$ |
| 97. $60 - 25$ | 137. $100 - 39$ |
| 98. 34×3 | 138. 41×4 |
| 99. $52 \div 4$ | 139. $74 \div 2$ |
| 100. 21×100 | 140. $371 + 60$ |
| 101. $63 + 19$ | 141. $59 + 8$ |
| 102. $35 - 16$ | 142. $52 - 14$ |
| 103. 8×15 | 143. 11×10 |
| 104. $36 \div 4$ | 144. $75 \div 5$ |
| 105. $2 + 405$ | 145. $123 + 45$ |
| 106. $16 + 15$ | 146. $370 + 151$ |
| 107. $453 - 200$ | 147. 40×10 |
| 108. 35×2 | 148. 37×2 |
| 109. $63 \div 3$ | 149. $66 \div 6$ |
| 110. $756 - 30$ | 150. $1000 \div 200$ |
| 111. $142 + 36$ | 151. $18 + 34$ |
| 112. $120 - 7$ | 152. $38 - 18$ |
| 113. 32×4 | 153. 52×3 |
| 114. $64 \div 4$ | 154. $68 \div 2$ |
| 115. $1600 + 63$ | 155. $28 + 27$ |
| 116. $18 + 34$ | 156. $450 - 27$ |
| 117. $42 - 28$ | 157. $700 - 399$ |
| 118. 31×20 | 158. 65×2 |
| 119. $57 \div 3$ | 159. $65 \div 5$ |
| 120. 42×1000 | 160. 20×20 |

Mental Arithmetic Practice - Level 2

1. $6 + 19$
2. $220 - 5$
3. 18×2
4. $36 \div 3$
5. $3 + 3.4$
6. $2.5 - 0.7$
7. $4 + 1.8$
8. 12×7
9. $80 \div 5$
10. $\frac{3}{10} + \frac{4}{10}$
11. $22 + 14$
12. $17 - 9$
13. 12×50
14. $40 \div 4$
15. $3.2 + 1.5$
16. $5.9 + 6.0$
17. $6.4 - 3.1$
18. 13×5
19. $64 \div 4$
20. $\frac{5}{8} - \frac{3}{8}$
21. $6 + 57$
22. $340 - 26$
23. 23×3
24. $40 \div 20$
25. $2.5 + 1.7$
26. $1.7 - 1.2$
27. $2.0 - 1.3$
28. 21×3
29. $34 \div 2$
30. $\frac{2}{7} + \frac{3}{7}$
31. $149 + 703$
32. $31 - 18$
33. 70×13
34. $51 \div 3$
35. $1.5 + 4.1$
36. $6 - 1.6$
37. $2.67 - 0.04$
38. 27×30
39. $28 \div 2$
40. $\frac{12}{10} - \frac{3}{10}$
41. $18 + 41$
42. $1000 - 44$
43. 14×10
44. $100 \div 5$
45. $1.6 + 0.8$
46. $3.2 - 0.9$
47. $3.1 - 1.7$
48. 23×4
49. $52 \div 2$
50. $\frac{4}{5} - \frac{1}{5}$
51. $97 + 9$
52. $72 - 15$
53. 13×100
54. $90 \div 3$
55. $2.81 - 2.8$
56. $3.11 + 0.4$
57. $5.6 - 2.8$
58. 17×10
59. $40 \div 5$
60. $\frac{9}{10} - \frac{3}{10}$
61. $60 + 45$
62. $452 - 14$
63. 15×12
64. $75 \div 15$
65. $1.2 + 5.5$
66. $4.6 + 3.4$
67. $3 + 1.99$
68. 6×14
69. $38 \div 2$
70. $\frac{2}{7} - \frac{1}{7}$
71. $335 + 45$
72. $40 - 12$
73. 24×6
74. $84 \div 4$
75. $2.5 + 1.61$
76. $4.32 - 4.1$
77. $6 - 3.65$
78. $70 \div 14$
79. 31×11
80. $\frac{2}{5} + \frac{6}{5}$

Mental Arithmetic Practice – Level 2 – continued

- | | | | |
|------|------------------------------|------|-------------------------------|
| 81. | $26 + 8$ | 121. | $7 + 102$ |
| 82. | $701 - 13$ | 122. | $45 - 18$ |
| 83. | 25×5 | 123. | 26×4 |
| 84. | $490 \div 7$ | 124. | $62 \div 2$ |
| 85. | $5 - 0.9$ | 125. | $28 + 2.3$ |
| 86. | $2.7 + 3.4$ | 126. | $0.25 + 0.12$ |
| 87. | $4.5 - 1.7$ | 127. | $19 - 2.5$ |
| 88. | 32×100 | 128. | 1×73 |
| 89. | $60 \div 12$ | 129. | $42 \div 3$ |
| 90. | $\frac{1}{9} + \frac{4}{9}$ | 130. | $\frac{4}{13} + \frac{5}{13}$ |
| 91. | $30 + 110$ | 131. | $16 + 40$ |
| 92. | $37 - 15$ | 132. | $34 - 9$ |
| 93. | 26×3 | 133. | 27×100 |
| 94. | $4400 \div 10$ | 134. | $0 \div 351$ |
| 95. | $3 + 1.5$ | 135. | $10 + 0.314$ |
| 96. | $4.3 - 1.7$ | 136. | $4.8 + 2.5$ |
| 97. | $6.0 - 1.25$ | 137. | $10 - 3.7$ |
| 98. | 33×30 | 138. | 41×40 |
| 99. | $52 \div 4$ | 139. | $74 \div 2$ |
| 100. | $\frac{11}{4} - \frac{3}{4}$ | 140. | $\frac{1}{6} + \frac{5}{6}$ |
| 101. | $63 + 219$ | 141. | $59 + 8$ |
| 102. | $135 - 116$ | 142. | $52 - 14$ |
| 103. | 8×14 | 143. | 11×100 |
| 104. | $56 \div 4$ | 144. | $75 \div 5$ |
| 105. | $2 + 4.05$ | 145. | $1.23 + 0.45$ |
| 106. | $1.6 + 1.99$ | 146. | $3.7 + 1.51$ |
| 107. | $4.53 - 1.2$ | 147. | $2.8 - 0.09$ |
| 108. | 35×2 | 148. | 37×2 |
| 109. | $63 \div 3$ | 149. | $66 \div 6$ |
| 110. | $\frac{5}{5} - \frac{4}{5}$ | 150. | $\frac{4}{7} + \frac{5}{7}$ |
| 111. | $142 + 36$ | 151. | $18 + 301$ |
| 112. | $70 - 7$ | 152. | $1038 - 125$ |
| 113. | 32×4 | 153. | 20×13 |
| 114. | $64 \div 4$ | 154. | $48 \div 2$ |
| 115. | $0.03 + 6.3$ | 155. | $2.8 + .27$ |
| 116. | $1.8 + 3.4$ | 156. | $4.5 - 2.7$ |
| 117. | $4.2 - 2.8$ | 157. | $7 - 0.34$ |
| 118. | 67×2 | 158. | 65×20 |
| 119. | $57 \div 3$ | 159. | $65 \div 5$ |
| 120. | $\frac{2}{3} + \frac{5}{3}$ | 160. | $\frac{3}{12} - \frac{1}{12}$ |

Mental Arithmetic Practice – Level 3

- 17×4
- $122 + 39$
- $\frac{1}{4}$ of 24
- $\frac{3}{10}$ as a decimal
- 0.6 as a percent
- $\$3.50 \times 10$
- 2.5×5
- add 20% to \$40
- $2 + 5 \times 6$
- $4.8 - 4$
- $2.03 - 1.5$
- $\frac{14}{5}$ as a mixed number
- $2.5 \div 0.5$
- $\frac{1}{5}$ of \$40
- $\frac{3}{5}$ of \$20
- 62% as a common fraction
- 12% of \$200
- $1 \div 5$ as a decimal
- add 10% to \$50
- $12 - 8 + 4$
- $\frac{24}{40}$ in simplest form
- $91 \div 7$
- 1.6×0.5
- $12 - 4.83$
- $\frac{4}{5}$ of 10
- $\frac{1}{4}$ of 3.2
- $3 \div 5$ as a common fraction
- $16 - 4 \div 10$
- 2.5×40
- take 25% off \$200
- how many hours in a week
- $100 - 28.4$
- 20×300
- 0.2 of 4
- 0.4×0.2
- 16% of 50
- $6 \times (3 + 5)$
- $2.6 + 1.81$
- $\frac{3}{5} + \frac{1}{5}$
- 6% as a decimal
- $430 - 128$
- $4\frac{2}{7}$ as an improper fr'n
- $\frac{7}{10}$ of 0.6
- 3.71×10
- $88 \div 40$
- $\$1.90 \times 5$
- $60 + 40 \times 3$
- 60% as a decimal
- $\frac{4}{5}$ as a percent
- add 5% to \$80
- $5.4 - 1.9$
- 0.6×2000
- $30 \div 100$
- $30 - 12 \div 4 \times 5$
- 1.2 as a percent
- $0.8 \div 5$
- $0.8 \div 0.5$
- $428 + 175$
- take 80% off \$250
- 0.4×35
- 16×8
- $40 - 12.76$
- $\frac{1}{8}$ as a decimal
- $\frac{5}{7}$ of 42
- 600×30
- 0.2×0.05
- \$90 discounted 20%
- $4 \times 5 - 7 \times 2$
- 121% as a mixed no.
- $0.03 \div 5$
- 12×13
- $6.3 - 2.85$
- 30% of \$40
- 2.41 as an improper fr'n
- $2.5 \div 500$
- $22 \div 2 \times 5$
- $11.7 \div 3$
- 2.5% of \$400
- $\frac{3}{8}$ of \$44 as a decimal
- $2.6 + 0.027$

Mental Arithmetic Practice – Level 3 – continued

81. 17×5
82. $119 + 99$
83. $\frac{1}{4}$ of 28
84. $\frac{7}{10}$ as a decimal
85. 0.75 as a percent
86. $\$6.50 \times 20$
87. 2.2×5
88. add 40% to \$40
89. $5 + 5 \times 6$
90. $4.8 - 3$
91. $2.11 - 1.5$
92. $\frac{17}{5}$ as a mixed number
93. $2.4 \div 0.2$
94. $\frac{1}{5}$ of \$60
95. $\frac{3}{5}$ of \$40
96. 32% as a common fr'n
97. 12% of \$300
98. $1 \div 2$ as a decimal
99. add 10% to \$60
100. $16 - 6 + 4$
101. $\frac{24}{42}$ in simplest form
102. $98 \div 7$
103. 2.4×0.5
104. $10 - 4.23$
105. $\frac{3}{5}$ of 10
106. $\frac{1}{4}$ of 3.6
107. $3 \div 8$ as a common fr'n
108. $16 - 6 \div 10$
109. 2.5×400
110. take 25% off \$120
111. minutes in a day
112. $100 - 33.3$
113. 20×500
114. 0.2 of 40
115. 0.4×0.3
116. 15% of \$50
117. $6 \times (8 - 5)$
118. $2.6 + 1.41$
119. $\frac{3}{5} - \frac{1}{5}$
120. 2% as a decimal
121. $470 - 269$
122. $4\frac{3}{8}$ as an improper fr'n
123. $\frac{9}{10}$ of 0.6
124. 3.77×100
125. $88 \div 40$
126. $\$2.95 \times 6$
127. $70 + 30 \times 3$
128. 50% as a decimal
129. $\frac{2}{5}$ as a percent
130. add 20% to \$80
131. $5.6 - 1.9$
132. 0.7×200
133. $70 \div 100$
134. $40 - 12 \div 4 \times 5$
135. 1.25 as a percent
136. $0.3 \div 5$
137. $8 \div 0.5$
138. $432 + 175$
139. take 60% off \$250
140. 0.4×45
141. 16×8
142. $40 - 12.76$
143. $\frac{1}{8}$ as a decimal
144. $\frac{5}{7}$ of 42
145. 600×30
146. 0.2×0.05
147. \$90 discounted 30%
148. $5 \times 5 - 7 \times 2$
149. 101% as a mixed no.
150. $0.03 \div 5$
151. 12×14
152. $6.25 - 2.75$
153. 15% of \$40
154. 2.3 as an improper fr'n
155. $2.6 \div 200$
156. $22 \div 2 \times 6$
157. $11.5 \div 5$
158. 2.2% of \$400
159. $\frac{3}{8}$ of \$36
160. $2.6 + 0.227$

Mental Arithmetic Practice - Level 4

- 170×5
- $10.22 - 4.39$
- $\frac{3}{4}$ of 240
- $\frac{13}{4}$ as a decimal
- 4^3
- $\sqrt{81}$
- 2×-5
- add 22% to \$40
- $-2 + 5 \times 6$
- $4 - 4.5$
- $2.03 - 2.55$
- 0.03×0.7
- $13.5 \div -1.5$
- $\frac{4}{15}$ of \$30
- 5^4
- $\frac{1}{2}$ of $\frac{2}{3}$
- 12% of \$150
- square root of 10 000
- add 10% to \$52
- $12 - 8 \times (4 + 3)$
- 1.81×5
- -2.5×-6
- 1.8×0.05
- $10 - 4.43$
- $\frac{4}{5}$ of 15
- 7^3
- $3 \div 15$ as a percent
- $16 - 20 \times 20 \div 10$
- 2.5×10.1
- $21 \div 70$
- how many hours in July
- $101 - 49.5$
- 30×300.5
- $\frac{111}{4}$ as a mixed number
- 0.4×0.25
- $2\frac{2}{6} + 3\frac{5}{6}$
- $16 - (-3 + 5)$
- $2.6 + 1.81$
- $\sqrt{121}$
- $(5^2 - 4^2) \div 2$
- $430 - 128.5$
- $3 \div 500$
- $\frac{7}{10}$ of 0.6
- 3.2×10^2
- $-8.7 \div -30$
- $68 \div 3 - 20 \div 3$
- $\frac{1}{2} + 1\frac{3}{4}$
- $4 - 2\frac{7}{8}$
- $\frac{5}{8}$ as a percent
- add 6% to \$60
- $-5.4 - 1.9$
- 0.4×2500
- $3^3 - 5^2$
- $20 - 12 \div 4 \times 5$
- 0.375 as a percent
- $2\frac{1}{2} \div \frac{1}{4}$
- $0.6 \div -0.5$
- $4.28 + 17.5$
- take 85% off \$300
- $\frac{3}{5}$ of $\frac{1}{2}$
- $16.7 + 2.998$
- 4^4
- $\frac{1}{4} - \frac{1}{10}$ as a decimal
- 30×22.5
- 1500×30
- 0.2×0.06
- \$50 discounted 24%
- $4 \times 5 - 0.7 \times -2$
- $\frac{48}{56}$ in simplest form
- $0.03 \div 6$
- 1.2×11
- $6 - 2 \times 2^2$
- 35% of \$40
- 0.415 as a percent
- $3 \div \frac{3}{4}$
- $25 \div -2 \times 5$
- $10.8 \div 3$
- 6^3
- $29\frac{3}{4}$ as an improper fr'n
- $\frac{7}{90}$ of 18

Mental Arithmetic Practice – Level 4 – continued

81. 160×5
82. $10.23 - 4.49$
83. $\frac{3}{8}$ of 240
84. $\frac{13}{5}$ as a decimal
85. 6^3
86. $\sqrt{1}$
87. -2×-8
88. add 12% to \$40
89. $-2 + -3 \times 6$
90. $4 - 5.8$
91. $2.04 - 2.44$
92. 0.05×0.7
93. $12 \div -1.5$
94. $\frac{7}{15}$ of \$300
95. 2^7
96. $\frac{1}{2}$ of $\frac{2}{5}$
97. 12% of \$120
98. $\sqrt{64}$
99. add 10% to \$45
100. $12 - 3 \times (4 + 3)$
101. 1.9×5
102. -2×-6.5
103. 18×0.05
104. $20 - 4.73$
105. $\frac{4}{5}$ of 20
106. 9^3
107. $6 \div 15$ as a percent
108. $20 - 10 \times 20 \div 5$
109. 2.5×11
110. $21 \div 700$
111. hours in 3 weeks
112. $220 - 49.8$
113. 30×100.1
114. $\frac{71}{4}$ as a mixed no.
115. 0.4×0.2
116. $2\frac{5}{6} + 1\frac{5}{6}$
117. $16 - (-4 - 5)$
118. $2.9 + 1.71$
119. $\sqrt{100}$
120. $(5^2 - 3^2) \times 2 - 2$
121. $430 - 179.5$
122. $2 \div 500$
123. $\frac{3}{10}$ of 0.6
124. 4.2×10^3
125. $8.4 \div -30$
126. 8^3
127. $\frac{3}{4} + 1\frac{3}{4}$
128. $6 - 2\frac{5}{8}$
129. $\frac{3}{8}$ as a percent
130. add 7% to \$60
131. $5.4 - -1.7$
132. 0.4×250
133. $3^4 - 4^3$
134. $30 - 16 \div 4 \times 5$
135. 0.007 as a percent
136. $3\frac{1}{2} \div \frac{1}{4}$
137. $1.6 \div -0.5$
138. $4.98 + 17.5$
139. take 95% off \$300
140. $\frac{1}{5}$ of $\frac{1}{2}$
141. $16.7 - 2.998$
142. 1^6
143. $\frac{1}{4} - \frac{1}{20}$ as a decimal
144. 40×20.5
145. 250×30
146. 0.02×0.05
147. \$50 discounted 16%
148. $4 \times 3 - 0.7 \times -2$
149. $\frac{42}{64}$ in simplest form
150. $0.04 \div 8$
151. 1.1×21
152. $6 - 2 \times 2^3$
153. 30% of \$45
154. 0.017 as a percent
155. $6 \div \frac{2}{3}$
156. $24 \div 2 \times -15$
157. $7.8 \div 3$
158. 3^5
159. $22\frac{3}{4}$ as an improper fr'n
160. $\frac{7}{40}$ of 16

Mental Arithmetic Practice – Level 5

- $212 - 28.3$
- 21×17
- $\frac{3}{8} + \frac{1}{12}$
- $6 \div \frac{3}{4}$
- $(-4.5)^2$
- 1.5^3
- 23.5% of \$500
- $16 + 4 \div 6 \times 3$
- 44% as a common fr'n
- add 12% to \$23.50
- $632 \div 5$ as a decimal
- 0.03×0.75
- $18 \div -0.15$
- $\frac{4}{19}$ of \$11.40
- 5^5
- $\frac{1}{2}$ of $\frac{2}{3}$ of 0.72
- 47×25
- $10^5 \div 40$
- add 9% to \$52
- $12 - 8 \times (4 + 3) \div -4$
- 1.8×51
- cube root of 1728
- $3^3/5 \times 1^7/9$ as a mixed no.
- $10 - 2.831975$
- $\frac{4}{5}$ of 12
- 0.7^3
- $1 \div 32$ as a percent
- $16 - 200 \times 20 \div 1000$
- 2.5×4.01
- $23.8 \div 700$
- hours in 120 days
- $11.1 \div 0.037$
- 30×344.5
- $\frac{1359}{14}$ as mixed number
- 0.47×0.025
- $2^1/6 - 3^5/12$ as a mixed no.
- $16 - -3 \times 0.55$
- 2.6×52
- $(-9)^4$
- $10 \div 7$ to 2 decimal places
- $430 - 128.5$
- $3.3 \div 600$
- $\frac{7}{10}$ of 0.8
- 3.2×5^2
- $-5.7 \div 0.3$
- $67 \div 3 - 20 \div 6$
- $\frac{1}{2} + 1^2/5$ as a mixed no.
- $4.1 - 2^7/8$ as a decimal
- $\frac{5}{16}$ as a percent
- add 0.6% to \$65
- $-5.4 + 1.95 \times 3$
- 0.41×250
- $3^6 - 5^4$
- $\frac{4}{9} \times \frac{3}{8} - \frac{3}{4}$
- 33×48
- $2\frac{1}{2} \div \frac{3}{4}$ as a mixed no.
- $0.6 \div -0.45$ as a mixed no.
- $4.28 + 16.5 \times 3$
- take 15% off \$34.60
- $\frac{3}{5} - \frac{1}{7}$
- $56.72 + 2.298$
- 0.05^4 in scientific not'n
- $\frac{1}{4} - \frac{1}{9}$ to 4 decimal places
- 40×27.5
- 1500×35
- minutes in 3.85 hours
- \$70 discounted 27%
- $4 \times 0.52 - 0.71 \times -2$
- $100 - 2.5 \times 56$
- $0.042 \div 350$
- 1.2×111
- $1 + 3 + 5 + 7 + \dots + 23 + 25$
- 32.1% of 40
- 44×315
- $14 \div \frac{3}{4}$ to 3 decimal places
- $34.5 \div (4 + 4 \times 2.3 - 1.7) + 6.5$
- $10.5 \div 30 \div 0.7$
- $(\sqrt{24})^4$
- $29\frac{3}{4}$ as an improper fr'n
- $\frac{17}{90}$ of 4.5 as a decimal

Mental Arithmetic Practice – Level 5 – continued

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| <p>81. $432 - 58.7$</p> <p>82. 21×27</p> <p>83. $\frac{3}{8} + \frac{1}{6}$</p> <p>84. $4 \div \frac{3}{4}$ as a mixed no.</p> <p>85. $(-2.1)^2$</p> <p>86. 1.2^3</p> <p>87. 16% of \$550</p> <p>88. $16 + 4 \div -6 \times 12$</p> <p>89. 35% as a common fr'n</p> <p>90. add 12% to \$44</p>
<p>91. $735 \div 15$</p> <p>92. 0.3×0.45</p> <p>93. $180 \div -0.45$</p> <p>94. $\frac{4}{13}$ of \$11.70</p> <p>95. 2^{13}</p> <p>96. $\frac{1}{4}$ of $\frac{2}{5}$ of 0.08</p> <p>97. 73×25</p> <p>98. $10^5 \div 800$</p> <p>99. add 14% to \$52</p> <p>100. $12 + 0.8 \times (4 + 3) \div -5$</p>
<p>101. 1.9×510</p> <p>102. square root of 484</p> <p>103. $3^3/5 \times 2^2/9$</p> <p>104. $10 - 4.711075$</p> <p>105. $\frac{4}{5}$ of 13</p> <p>106. 0.6^3</p> <p>107. $13 \div 40$ as a percent</p> <p>108. $10.6 - 250 \times 20 \div 1000$</p> <p>109. 25×411</p> <p>110. $97.6 \div 800$</p>
<p>111. minutes in 3 days</p> <p>112. $5.16 \div 0.03$</p> <p>113. 30×312.5</p> <p>114. $\frac{200}{9}$ as a mixed number</p> <p>115. 0.417×0.05</p> <p>116. $2\frac{1}{6} + 3\frac{5}{9}$ as a mixed no.</p> <p>117. $4.7 + -3 \times 0.85$</p> <p>118. 2.6×81</p> <p>119. $(-9)^3$</p> <p>120. $10 \div 9$ to 3 decimal places</p> | <p>121. $126.32 - 129.5$</p> <p>122. $3.9 \div 600$</p> <p>123. $\frac{7}{10}$ of 0.7</p> <p>124. 3.7×5^2</p> <p>125. $-11.7 \div 0.03$</p> <p>126. $68 \div 3 - 40 \div 6$</p> <p>127. $\frac{3}{4} + 1\frac{2}{5}$ as a mixed no.</p> <p>128. $4.7 - 2\frac{7}{8}$ as a decimal</p> <p>129. $\frac{4}{9}$ as a % to 2 dec places</p> <p>130. add 1.6% to \$65</p>
<p>131. $-5.4 - 1.95 \times 5$</p> <p>132. 0.44×750</p> <p>133. $3^6 - 6^3$</p> <p>134. $\frac{7}{12} \times -\frac{3}{8} + \frac{3}{4}$</p> <p>135. 33×998</p> <p>136. $2\frac{1}{2} \div \frac{3}{5}$ as a mixed no.</p> <p>137. $0.6 \div 0.25$ as a mixed no.</p> <p>138. $4.008 + 11.05 \times 3$</p> <p>139. take 40% off \$34.60</p> <p>140. $\frac{3}{5} - \frac{1}{8}$</p>
<p>141. $6.72 + 2.289$</p> <p>142. 0.03^3 in scientific not'n</p> <p>143. $\frac{1}{4} - \frac{1}{6}$ to 3 decimal places</p> <p>144. 40×17.2</p> <p>145. 500×55</p> <p>146. seconds in 3.1 hours</p> <p>147. \$40 discounted 27%</p> <p>148. $3 \times 0.52 - 0.77 \times -2$</p> <p>149. $198 - 2.5 \times 66$</p> <p>150. $0.049 \div 35$</p>
<p>151. 101^2</p> <p>152. $22\,222 \div 55\,555$ as a decimal</p> <p>153. 25.1% of 40</p> <p>154. 44×115</p> <p>155. $11 \div \frac{3}{4}$ to 3 decimal places</p> <p>156. $11 \div 9.9$ as a mixed no.</p> <p>157. $11.2 \div 20 \div 0.7$</p> <p>158. $(\sqrt{6})^8$</p> <p>159. $107\frac{3}{4}$ as an improper fr'n</p> <p>160. $\frac{13}{30}$ of 4.5 as a decimal</p> |
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Answers to Mental Arithmetic Practice - Level 1

1.	23	41.	58	81.	34	121.	129
2.	17	42.	56	82.	59	122.	27
3.	34	43.	140	83.	125	123.	96
4.	12	44.	20	84.	7	124.	32
5.	335	45.	24	85.	166	125.	51
6.	198	46.	23	86.	61	126.	13
7.	22	47.	14	87.	28	127.	989
8.	84	48.	92	88.	160	128.	73
9.	16	49.	80	89.	600	129.	14
10.	252	50.	300	90.	40	130.	721
11.	35	51.	16	91.	1230	131.	16
12.	80	52.	59	92.	122	132.	34
13.	60	53.	720	93.	84	133.	0
14.	10	54.	30	94.	220	134.	0
15.	182	55.	0	95.	45	135.	324
16.	119	56.	315	96.	26	136.	49
17.	6369	57.	28	97.	35	137.	61
18.	39	58.	1700	98.	102	138.	164
19.	16	59.	8	99.	13	139.	37
20.	940	60.	390	100.	2100	140.	431
21.	53	61.	105	101.	82	141.	67
22.	4	62.	40	102.	19	142.	38
23.	69	63.	75	103.	120	143.	110
24.	2	64.	5	104.	9	144.	15
25.	142	65.	66	105.	407	145.	168
26.	50	66.	390	106.	31	146.	521
27.	7	67.	499	107.	253	147.	400
28.	7	68.	84	108.	70	148.	74
29.	17	69.	19	109.	21	149.	11
30.	4	70.	3	110.	726	150.	5
31.	122	71.	80	111.	178	151.	52
32.	13	72.	28	112.	113	152.	20
33.	91	73.	144	113.	128	153.	156
34.	17	74.	21	114.	16	154.	34
35.	425	75.	224	115.	1663	155.	55
36.	190	76.	399	116.	52	156.	423
37.	253	77.	301	117.	14	157.	301
38.	81	78.	5	118.	620	158.	130
39.	14	79.	186	119.	19	159.	13
40.	180	80.	14	120.	42 000	160.	400

Answers to Mental Arithmetic Practice - Level 2

1.	25	41.	59	81.	34	121.	109
2.	215	42.	956	82.	688	122.	27
3.	36	43.	140	83.	125	123.	104
4.	12	44.	20	84.	70	124.	31
5.	6.4	45.	2.4	85.	4.1	125.	30.3
6.	1.8	46.	2.3	86.	6.1	126.	0.37
7.	5.8	47.	1.4	87.	2.8	127.	16.5
8.	84	48.	92	88.	3200	128.	73
9.	6	49.	26	89.	5	129.	14
10.	$\frac{7}{10}$	50.	$\frac{3}{5}$	90.	$\frac{5}{9}$	130.	$\frac{9}{13}$
11.	36	51.	106	91.	140	131.	56
12.	8	52.	57	92.	22	132.	25
13.	600	53.	1300	93.	78	133.	2700
14.	10	54.	30	94.	440	134.	0
15.	4.7	55.	0.01	95.	4.5	135.	10.314
16.	11.9	56.	3.51	96.	2.6	136.	7.3
17.	3.3	57.	2.8	97.	4.75	137.	6.3
18.	65	58.	170	98.	990	138.	1640
19.	16	59.	8	99.	13	139.	37
20.	$\frac{2}{8}$ or $\frac{1}{4}$	60.	$\frac{6}{10}$ or $\frac{3}{5}$	100.	$\frac{8}{4}$ or 2	140.	$\frac{6}{6}$ or 1
21.	63	61.	105	101.	282	141.	67
22.	314	62.	438	102.	19	142.	38
23.	69	63.	180	103.	112	143.	1100
24.	2	64.	5	104.	14	144.	15
25.	4.2	65.	6.7	105.	6.05	145.	168
26.	0.5	66.	8	106.	3.59	146.	5.21
27.	0.7	67.	4.99	107.	3.33	147.	2.71
28.	63	68.	84	108.	70	148.	74
29.	17	69.	19	109.	21	149.	11
30.	$\frac{5}{7}$	70.	$\frac{1}{7}$	110.	$\frac{1}{5}$	150.	$\frac{9}{7}$ or $1\frac{2}{7}$
31.	852	71.	380	111.	178	151.	319
32.	13	72.	28	112.	63	152.	913
33.	910	73.	144	113.	128	153.	260
34.	17	74.	21	114.	16	154.	24
35.	5.6	75.	4.11	115.	6.33	155.	3.07
36.	4.4	76.	0.22	116.	5.2	156.	1.8
37.	2.63	77.	2.35	117.	1.4	157.	6.66
38.	810	78.	5	118.	134	158.	1300
39.	14	79.	341	119.	19	159.	13
40.	$\frac{9}{10}$	80.	$\frac{8}{5}$ or $1\frac{3}{5}$	120.	$\frac{7}{3}$ or $2\frac{1}{3}$	160.	$\frac{2}{12}$ or $\frac{1}{6}$

Answers to Mental Arithmetic Practice - Level 3

1. 68	41. 302	81. 85	121. 201
2. 161	42. $\frac{30}{7}$	82. 218	122. $\frac{35}{8}$
3. 6	43. 0.42	83. 7	123. 0.54
4. 0.3	44. 37.1	84. 0.7	124. 377
5. 60%	45. 2.2	85. 75%	125. 2.2
6. \$35	46. \$9.50	86. \$130	126. \$17.70
7. 12.5	47. 180	87. 11	127. 160
8. \$48	48. 0.6	88. \$56	128. 0.5
9. 32	49. 80%	89. 35	129. 40%
10. 0.8	50. \$84	90. 1.8	130. \$96
11. 0.53	51. 3.5	91. 0.61	131. 3.7
12. $2^4/5$	52. 1200	92. $3^2/5$	132. 140
13. 5	53. 0.3	93. 12	133. 0.7
14. \$8	54. 15	94. \$12	134. 25
15. \$12	55. 120%	95. \$24	135. 125%
16. $\frac{62}{100}$ or $\frac{31}{50}$	56. 0.16	96. $\frac{32}{100}$ or $\frac{8}{25}$	136. 0.06
17. \$24	57. 1.6	97. \$40	137. 16
18. 0.2	58. 603	98. 0.5	138. 607
19. \$55	59. \$50	99. \$66	139. \$100
20. 8	60. 14	100. 14	140. 18
21. $\frac{3}{5}$	61. 128	101. $\frac{4}{7}$	141. 128
22. 13	62. 27.24	102. 14	142. 27.24
23. 0.8	63. 0.125	103. 1.2	143. 0.125
24. 7.17	64. 30	104. 5.77	144. 30
25. 8	65. 18 000	105. 6	145. 18 000
26. 0.8	66. 0.01	106. 0.9	146. 0.01
27. $\frac{3}{5}$	67. \$72	107. $\frac{3}{8}$	147. \$63
28. 15.6	68. 6	108. 15.4	148. 11
29. 100	69. $1^{21}/100$	109. 1000	149. $1^4/100$
30. \$150	70. 0.006	110. \$90	150. 0.006
31. 168	71. 156	111. 1440	151. 168
32. 71.6	72. 3.45	112. 66.7	152. 3.5
33. 6000	73. \$12	113. 10 000	153. \$6
34. 0.8	74. $\frac{241}{100}$	114. 8	154. $\frac{23}{10}$
35. 0.08	75. 0.005	115. 0.12	155. 0.013
36. 8	76. 55	116. \$7.50	156. 66
37. 48	77. 3.9	117. 18	157. 2.3
38. 4.41	78. \$10	118. 4.01	158. \$8.80
39. $\frac{4}{5}$	79. 16.5	119. $\frac{2}{5}$	159. \$13.50
40. 0.06	80. 2.627	120. 0.02	160. 2.827

Answers to Mental Arithmetic Practice - Level 4

1. 850	41. 301.5	81. 800	121. 250.5
2. 5.83	42. 0.006	82. 7.74	122. 0.004
3. 180	43. 0.42	83. 90	123. 0.18
4. 3.25	44. 320	84. 2.6	124. 0.0042
5. 64	45. 0.29	85. 216	125. -0.28
6. 9	46. 16	86. 1	126. 512
7. -10	47. $2\frac{1}{4}$	87. 16	127. $2\frac{1}{2}$
8. \$48.80	48. $1\frac{1}{8}$	88. \$44.80	128. $3\frac{3}{8}$
9. 28	49. 62.5%	89. -20	129. 37.5%
10. -0.5	50. \$63.60	90. -1.8	130. \$64.20
11. -0.52	51. -7.3	91. -0.4	131. 7.1
12. 0.021	52. 1000	92. 0.035	132. 100
13. -7	53. 2	93. -8	133. 17
14. \$8	54. 5	94. \$140	134. 10
15. 625	55. 37.5%	95. 128	135. 0.7%
16. $\frac{1}{3}$	56. 10	96. $\frac{1}{5}$	136. $3\frac{1}{4}$
17. 18	57. -1.2	97. \$14.40	137. -3.2
18. 100	58. 21.78	98. 8	138. 22.48
19. \$57.20	59. \$45	99. \$49.50	139. \$15
20. -44	60. $\frac{3}{10}$	100. -9	140. $\frac{1}{10}$
21. 9.05	61. 19.698	101. 9.5	141. 13.702
22. 15	62. 256	102. 13	142. 1
23. 0.09	63. 0.15	103. 0.9	143. 0.2
24. 5.57	64. 675	104. 15.27	144. 820
25. 12	65. 45 000	105. 16	145. 7500
26. 343	66. 0.012	106. 729	146. 0.001
27. 20%	67. \$38	107. 40%	147. \$42
28. -24	68. 21.2	108. -20	148. 13.4
29. 25.25	69. $\frac{6}{7}$	109. 2.75	149. $\frac{21}{32}$
30. 0.3	70. 0.005	110. 0.03	150. 0.005
31. 744	71. 1.32	111. 504	151. 23.1
32. 51.5	72. -2	112. 170.2	152. -10
33. 9015	73. \$14	113. 3003	153. \$13.50
34. $27\frac{3}{4}$	74. 41.5%	114. $17\frac{3}{4}$	154. 1.7%
35. 0.1	75. 4	115. 0.08	155. 9
36. $6\frac{1}{6}$	76. -62.5	116. $4\frac{4}{6}$ or $4\frac{2}{3}$	156. -180
37. 14	77. 3.6	117. 25	157. 2.6
38. 4.41	78. 216	118. 4.61	158. 243
39. 11	79. $\frac{119}{4}$	119. 10	159. $\frac{91}{4}$
40. 4.5	80. 1.4	120. 30	160. 2.8

Answers to Mental Arithmetic Practice - Level 5

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|----------------------|---------------------------|-----------------------|------------------------|
| 1. 183.7 | 41. 301.5 | 81. 373.3 | 121. 3.18 |
| 2. 357 | 42. 0.0055 | 82. 567 | 122. 0.0065 |
| 3. $\frac{11}{24}$ | 43. 0.56 | 83. $\frac{13}{24}$ | 123. 0.49 |
| 4. 8 | 44. 8 | 84. $5\frac{1}{3}$ | 124. 92.5 |
| 5. 20.25 | 45. -19 | 85. 4.41 | 125. -390 |
| 6. 3.375 | 46. 19 | 86. 1.788 | 126. 16 |
| 7. \$117.50 | 47. $1\frac{9}{10}$ | 87. \$88 | 127. $2\frac{3}{20}$ |
| 8. 18 | 48. 1.225 | 88. 8 | 128. 1.825 |
| 9. $\frac{11}{25}$ | 49. 31.25% | 89. $\frac{7}{20}$ | 129. 44.44% |
| 10. \$29.32 | 50. \$65.39 | 90. \$49.28 | 130. \$66.04 |
| 11. 126.4 | 51. 0.45 | 91. 47 | 131. -15.15 |
| 12. 0.025 | 52. 102.5 | 92. 0.135 | 132. 330 |
| 13. -120 | 53. 104 | 93. -0.04 | 133. 513 |
| 14. \$2.40 | 54. $-\frac{7}{12}$ | 94. \$3.60 | 134. $\frac{17}{18}$ |
| 15. 3125 | 55. 1584 | 95. 8192 | 135. 32 934 |
| 16. 0.24 | 56. $3\frac{1}{3}$ | 96. 0.008 | 136. $4\frac{1}{6}$ |
| 17. 1175 | 57. $-1\frac{1}{3}$ | 97. 1825 | 137. $2\frac{2}{5}$ |
| 18. 2500 | 58. 53.78 | 98. 125 | 138. 37.158 |
| 19. \$56.68 | 59. \$29.43 | 99. \$59.28 | 139. \$20.76 |
| 20. 11 | 60. $\frac{16}{35}$ | 100. 13.12 | 140. $\frac{19}{40}$ |
| 21. 91.8 | 61. 59.018 | 101. 969 | 141. 9.009 |
| 22. 12 | 62. 6.25×10^{-6} | 102. 22 | 142. 2.7×10^5 |
| 23. $6\frac{2}{5}$ | 63. 0.1389 | 103. 8 | 143. 0.083 |
| 24. 7.168025 | 64. 1100 | 104. 5.288925 | 144. 688 |
| 25. 9.6 | 65. 52 500 | 105. 10.4 | 145. 27 500 |
| 26. 0.343 | 66. 231 | 106. 0.216 | 146. 11 160 |
| 27. 3.125% | 67. \$51.10 | 107. 32.5% | 147. \$29.20 |
| 28. 12 | 68. 3.5 | 108. 5.6 | 148. 3.1 |
| 29. 10.025 | 69. -40 | 109. 10 275 | 149. 33 |
| 30. 0.034 | 70. 0.00012 | 110. 0.122 | 150. 0.0014 |
| 31. 2880 | 71. 133.2 | 111. 4320 | 151. 10 201 |
| 32. 300 | 72. 169 | 112. 172 | 152. 0.4 |
| 33. 10 335 | 73. 12.84 | 113. 9375 | 153. 10.04 |
| 34. $97\frac{1}{14}$ | 74. 13 860 | 114. $22\frac{2}{9}$ | 154. 5060 |
| 35. 0.01175 | 75. 18.667 | 115. 0.02085 | 155. 14.667 |
| 36. $-1\frac{1}{4}$ | 76. 9.5 | 116. $5\frac{13}{18}$ | 156. $1\frac{1}{9}$ |
| 37. 17.65 | 77. 0.5 | 117. 2.15 | 157. 0.7 |
| 38. 135.2 | 78. 576 | 118. 210.6 | 158. 1296 |
| 39. 6561 | 79. $\frac{119}{4}$ | 119. 729 | 159. $\frac{431}{4}$ |
| 40. 1.43 | 80. 0.85 | 120. 1.111 | 160. 1.95 |